



FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.5340002/RWE/BJD/JKMAPPLICATION NO.
10/005,876FIRST NAMED INVENTOR
Chesnut *et al.*FILING DATE
December 7, 2001ART UNIT
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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	AK9	2003/0220249	11/27/2003	Hackett <i>et al.</i>			02/07/2003

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP9	WO 02/00875	01/03/2002	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	116	Ohara, O. and Temple, G., "Directional cDNA library construction assisted by the <i>in vitro</i> recombination reaction," <i>Nucleic Acids Research</i> 29:e22(1-8), Oxford University Press (February 15, 2001).
	AS	116	Co-Pending U.S. Patent Application No. 10/893,235, Hartley <i>et al.</i> , filed July 19, 2004 (Not Published).
	AT	116	Hartley, J.L., <i>et al.</i> , "DNA Cloning Using In Vitro Site-Specific Recombination," <i>Genome Research</i> 10:1288-1795, Cold Spring Harbor Laboratory Press (November 2000).

EXAMINER

JAMES KETTER
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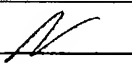

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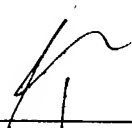
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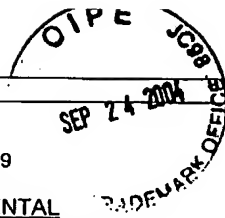
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	AL10	WO 02/16594	02/28/2002	WIPO			Yes No
	AM10	WO 01/31039	05/03/2001	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>117</u>	Heyman, J.A. <i>et al.</i> , "Genome-Scale Cloning and Expression of Individual Open Reading Frames Using Topoisomerase I-Mediated Ligation," <i>Genome Research</i> 9:383-392, Cold Spring Harbor Laboratory Press (1999).
	AS	<u>117</u>	Invitrogen Online Catalog, http://web.archive.org/web/20010112191100/www.invitrogen.com/catalog_project/cat_echo.html (accessed July 7, 2004).
	AT	<u>117</u>	Invitrogen Online Catalog, http://invitrogen.com/content.cfm?pageid+3371&cfd=16767784&cftoken=62396683 (accessed July 7, 2004).

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	AR	118	Russell, M., "A recombination-based cloning system that decreases time to protein analysis," <i>American Biotechnology Laboratory</i> 18:8-10, International Scientific Communications, Inc. (June 2000).
	AS	118	Sinclair, B., "Honing Your Cloning," <i>The Scientist</i> 14:29-32, The Scientist, Inc. (August 21, 2000).
	AT		

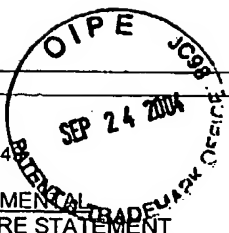
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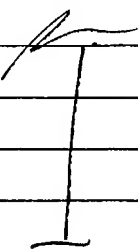
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	AA10	4,808,537	02/28/1989	Stroman et al.			10/30/1984
	AB10	4,855,231	08/08/1989	Stroman et al.			09/25/1985
	AC10	4,959,217	09/25/1990	Sanders et al.			05/22/198
	AD10	5,654,182	08/05/1997	Wahl et al.			06/07/1995
	AE10	2002/0106797-A1	08/08/2002	Miles et al.			03/12/2001
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	AM						Yes No
	AN10	WO 92/15694 A1	09/17/1992	WIPO			Yes No
	AO10	WO 00/12687 A1	03/09/2000	WIPO			Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
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	AT	118	Agah, R., <i>et al.</i> , "Gene Recombination in Postmitotic Cells," <i>J. Clin. Invest.</i> 100:169-179, The American Society for Clinical Investigation, Inc. (July 1997)

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PATENT & TRADEMARK OFFICE

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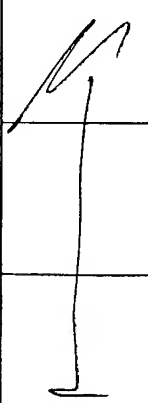
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>119</u>	Benoist, C. and Chambon, P., "In vivo sequence requirements of the SV40 early promoter region," <i>Nature</i> 290:304-310, Macmillan Journals, Ltd. (1981)
	AS	<u>119</u>	Botstein, D., <i>et al.</i> , "Making mutations <i>in vitro</i> and putting them back into yeast," in <i>From Gene to Protein: Translation into Biotechnology</i> , Ahmad, F., <i>et al.</i> , eds., Academic Press, New York, NY, pp. 265-274 (1982)
	AT	<u>119</u>	Broach, J.R., "The Yeast Plasmid 2 μ Circle," <i>Cell</i> 28:203-204, MIT (1982)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>120</u>	Cenatiempo, Y., "Prokaryotic gene expression <i>in vitro</i> : transcription -translation coupled systems," <i>Biochimie</i> 68:505-515, Elsevier (1986)
	AS	<u>120</u>	Christiansen, B., <i>et al.</i> , "A Resolvase-Like Protein Is Required for the Site-Specific Integration of the Temperate Lactococcal Bacteriophage TP901-1," <i>J. Bacteriol.</i> 178:5164-5173, American Society for Microbiology (1996)
	AT	<u>120</u>	Crellin, P.K. and Rood, J.I., "The Resolvase/Invertase Domain of the Site-Specific Recombinase TnpX Is Functional and Recognizes a Target Sequence That Resembles the Junction of the Circular Form of the <i>Clostridium perfringens</i> Transposon Tn4451," <i>J. Bacteriol.</i> 179:5148-5156, American Society for Microbiology (August 1997)

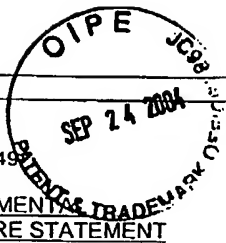
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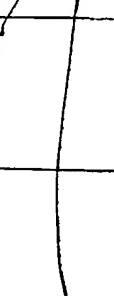
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	121	Ferrin, L.J. and Camerini-Otero, R.D., "Sequence-specific ligation of DNA using RecA protein," <i>Proc. Natl. Acad. Sci. USA</i> 95:2152-2157, National Academy of Sciences (March 1998)
	AS	121	Golic, K.G. and Golic, M.M., "Engineering the Drosophila Genome: Chromosome Rearrangements by Design," <i>Genetics</i> 144:1693-1711, The Genetics Society of America (1996)
	AT	121	Gottesman, S., "Bacterial regulation: Global regulatory networks," <i>Ann. Rev. Genet.</i> 18:415-441, Annual Reviews, Inc. (1984)

EXAMINER JAMES KETTER PRIMARY EXAMINER	DATE CONSIDERED 10/17/04
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01. - JCS
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PATENT: TRADEMARK

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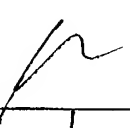


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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>122</u>	Guo, F., <i>et al.</i> , "Structure of the Cre recombinase complexed with DNA in a site-specific recombination synapse," <i>Nature</i> 389:40-46, Nature Publishing Group (September 1997)
	AS	<u>122</u>	Hallet, B. and Sherratt, D.J., "Transposition and site-specific recombination: adapting DNA cut-and-paste mechanisms to a variety of genetic rearrangements," <i>FEMS Microbiol. Rev.</i> 21:157-178, Elsevier Science B.V. (September 1997)
	AT	<u>122</u>	Hamer, D.H. and Walling, M., "Regulation <i>In Vivo</i> of a Cloned Mammalian Gene: Cadmium Induces the Transcription of a Mouse Metallothionein Gene in SV40 Vectors," <i>J. Mol. Appl. Genet.</i> 1:273-288, Raven Press (1982)

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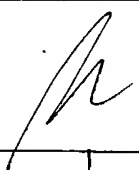

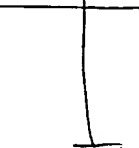
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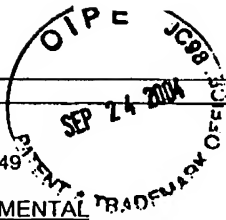
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	AR	123	Hanks, S.K. and Hunter, T., "The eukaryotic protein kinase superfamily: kinase (catalytic) domain structure and classification," <i>FASEB J.</i> 9:576-596, The Federation of American Societies for Experimental Biology (1995).
	AS	123	Huang, L.-C., <i>et al.</i> , "Convenient and Reversible Site-Specific Targeting of Exogenous DNA into a Bacterial Chromosome by Use of the FLP Recombinase: the FLIRT System," <i>J. Bacteriol.</i> 179:6076-6083, American Society for Microbiology (October 1997).
	AT	123	John, Jr., J.F. and Twitty, J.A., "Plasmids as Epidemiologic Markers in Nosocomial Gram-Negative Bacilli: Experience at a University and Review of the Literature," <i>Rev. Infect. Dis.</i> 8:693-704, University of Chicago Press (1986)

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	AR	124	Johnston, S.A., and Hopper, J.E., "Isolation of the yeast regulatory gene <i>GAL4</i> and analysis of its dosage effects on the galactose/melibiose regulon," <i>Proc. Natl. Acad. Sci. USA</i> 79:6971-6975, National Academy of Sciences (1982)
	AS	124	Kendall, K.J., and Cohen, S.N., "Plasmid transfer in <i>Streptomyces lividans</i> : Identification of a kil-kor System Associated with the Transfer Region of pIJ101," <i>J. Bacteriol.</i> 169:4177-4183, American Society for Microbiology (1987)
	AT	124	Lyznik, L.A., <i>et al.</i> , "Activity of yeast FLP recombinase in maize and rice protoplasts," <i>Nucleic Acids Res.</i> 21:969-975, Oxford University Press (1993)

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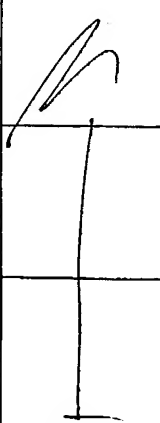
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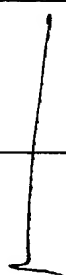
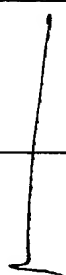
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	125	Maniatis, T., "Recombinant DNA Procedures in the Study of Eukaryotic Genes," in <i>Cell Biology: A Comprehensive Treatise, Volume 3, Gene Expression: The Production of RNA's</i> , Goldstein, L. and Prescott, D.M., eds., Academic Press, Inc., New York, NY, pp. 563-608 (1980).
	AS	125	Mayer, B.J., and Baltimore, D., "Signalling through SH2 and SH3 domains," <i>Trends Cell Biol.</i> 3:8-13, Elsevier Science Publishers, Ltd. (1993)
	AT	125	McKnight, S.L., "Functional Relationships between Transcriptional Control Signals of the Thymidine Kinase Gene of Herpes Simplex Virus," <i>Cell</i> 31:355-365, MIT (1982)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	126	Nunes-Duby, S.E., et al., "λ Integrase cleaves DNA in <i>cis</i> ," <i>EMBO J.</i> 13:4421-4430, Oxford University Press (1994)				
	AS	126	Odell, J., et al., "Site-directed recombination in the genome of transgenic tobacco," <i>Mol. Gen. Genet.</i> 223:369-378, Springer-Verlag (1990)				
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JAMES KETTER				10/13/04			
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10/005,876FIRST NAMED INVENTOR
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	AM						Yes No
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	AO						Yes No
	AP						Yes No

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	AR	<u>127</u>	Rausch, H. and Lehmann, M., "Structural analysis of the actinophage Φ C31 attachment site," <i>Nucleic Acids Res.</i> 19:5187-5189, IRL Press (1991)
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	AT	<u>127</u>	Sauer, B. and Henderson, N., "Targeted Insertion of Exogenous DNA into the Eukaryotic Genome by the Cre Recombinase," <i>New Biol.</i> 2:441-449, Saunders Scientific Publications/W.B. Saunders Company (1990)

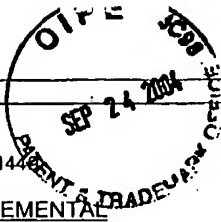
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>128</u>	Senecoff, J.F., <i>et al.</i> , "The FLP recombinase of the yeast 2- μ m plasmid: Characterization of its recombination site," <i>Proc. Natl. Acad. Sci. USA</i> 82:7270-7274, National Academy of Sciences (1985)
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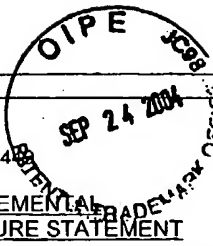
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	AP						Yes No

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	AR	<u>129</u>	Shuman, S., <i>et al.</i> , "Characterization of Vaccinia Virus DNA Topoisomerase I Expressed in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 263:16401-16407, The American Society for Biochemistry and Molecular Biology, Inc. (1988)
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	AT	<u>129</u>	Silver, P.A., <i>et al.</i> , "Amino terminus of the yeast <i>GAL4</i> gene product is sufficient for nuclear localization," <i>Proc. Natl. Acad. Sci. USA</i> 81:5951-5955, National Academy of Sciences (1984)

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FIRST NAMED INVENTOR Chesnut <i>et al.</i>	
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	AR	130	Stark, W.M., <i>et al.</i> , "Catalysis by site-specific recombinases," <i>Trends Genet.</i> 8:432-439, Elsevier Science Publishers, Ltd. (1992)
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	AT	130	van Deursen, J., <i>et al.</i> , "Cre-mediated site-specific translocation between nonhomologous mouse chromosomes," <i>Proc. Natl. Acad. Sci. USA</i> 92:7376-7380, National Academy of Sciences (1995)

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	AR	<u>131</u>	Ward, J.M., et al., "Construction and characterisation of a series of multi-copy promoter-probe plasmid vectors for <i>Streptomyces</i> using the aminoglycoside phosphotransferase gene from Tn5 as indicator," <i>Mol. Gen. Genet.</i> 203:468-478, Springer-Verlag (1986)
	AS	<u>131</u>	Invitrogen Life Technologies online catalog, "Directional TOPO Entry Vectors," (September 27, 2002). http://www.invitrogen.com/content.cfm?pageid=3799&cfid=2897960&cftoken=88086554
	AT	<u>131</u>	International Search Report for International Application No. PCT/US99/19413 mailed on January 27, 2000

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














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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Methods and Compositions for Synthesis of Nucleic Acid Molecules Using Multiple Recognition Sites																																																																						
<p>Application Number: 10/005876 </p> <p>Confirmation Number: 7958</p> <p>First Named Applicant: Jonathan Chesnut</p> <p>Attorney Docket Number: 0942.5340002</p> <p>Art Unit: 1636</p> <p>Examiner: James S Ketter</p> <p>Search string: (6066778 or 6720140 or 20040053412 or 20020182731 or 20030027289 or 20030054555 or 20030059900 or 20030100110 or 20020172997 or 20020192819 or 20030157716 or 20020094574 or 20030054552 or 20030064515 or 20030068799 or 20030175970 or 20040063207 or 20030157662 or 20020007051 or 20030124555 or 20030077804 or 20030186233).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>6066778</td><td>2000-05-23</td><td>Ginsburg et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>6720140</td><td>2004-04-13</td><td>Hartley et al.</td><td></td><td></td><td></td></tr></tbody></table> <p>US Published Applications</p> <p>Note: Applicant is not required to submit a paper copy of cited US Published Applications</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Pub. No.</th><th>Date</th><th>Applicant</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>20040053412</td><td>2004-03-18</td><td>Hartley et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>20020182731</td><td>2002-12-05</td><td>Ji et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>20030027289</td><td>2003-02-06</td><td>Farmer</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>20030054555</td><td>2003-03-20</td><td>Farmer et al.</td><td></td><td></td><td></td></tr></tbody></table>								init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	6066778	2000-05-23	Ginsburg et al.					2	6720140	2004-04-13	Hartley et al.				init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass		1	20040053412	2004-03-18	Hartley et al.					2	20020182731	2002-12-05	Ji et al.					3	20030027289	2003-02-06	Farmer					4	20030054555	2003-03-20	Farmer et al.			
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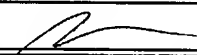
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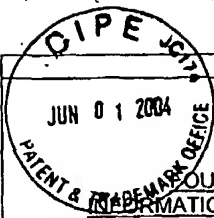
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Signature

Examiner Name	Date
JAMES KETTER PRIMARY EXAMINER 	10/13/04



FORM PTO-1449

FOURTH SUPPLEMENTAL
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	AR		
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<i>M</i>	AT	<u>108</u>	Kuempel, P., <i>et al.</i> , "Use of a transposon (Tndif) to obtain suppressing and nonsuppressing insertions of the <i>dif</i> resolvase site of <i>Escherichia coli</i> ," <i>Genes Dev.</i> 10:1162-1171, Cold Spring Harbor Laboratory Press (July 1, 1996).

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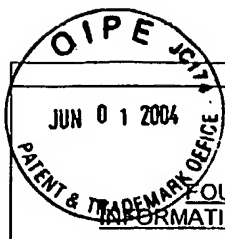
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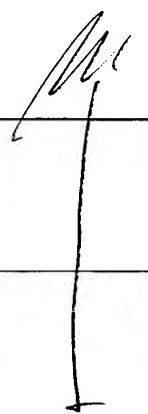
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	AS	<u>109</u>	Lenski, R.E., <i>et al.</i> , "Genetic Analysis of a Plasmid-Encoded, Host Genotype-Specific Enhancement of Bacterial Fitness," <i>J. Bacteriol.</i> 176:3140-3147, American Society for Microbiology (1994).
	AT	<u>109</u>	Manning, P.A., <i>et al.</i> , "Gene Capture in <i>Vibrio cholera</i> ," <i>Trends in Microbiology</i> 7:93-95, Elsevier Science (1999).

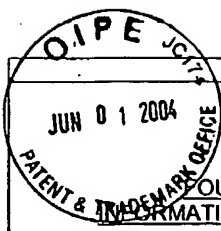
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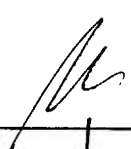


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	AR	<u>110</u>	Murayama, N., <i>et al.</i> , "Evidence for Involvement of <i>Escherichia coli</i> Genes <i>pmbA</i> , <i>csrA</i> and a Previously Unrecognized Gene <i>tldD</i> , in the Control of DNA Gyrase by <i>letD</i> (<i>ccdB</i>) of Sex Factor F," <i>J. Mol. Biol.</i> 256:483-502, Academic Press Ltd. (1996).
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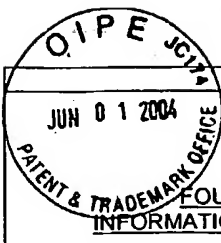
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	AP						Yes No

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	AR	<u>111</u>	Zechiedrich, E.L., <i>et al.</i> , "Topoisomerase IV, not gyrase, decatenates products of site-specific recombination in <i>Escherichia coli</i> ," <i>Genes Dev.</i> 11:2580-2592, Cold Spring Harbor Laboratory Press (1997).
	AS	<u>111</u>	Institut Pasteur Website, Introduction: http://www.pasteur.fr/recherche/unites/pmtg/integ/intro.html (accessed 6/19/2003).
	AT	<u>111</u>	Institut Pasteur Website, Figure 1: http://www.pasteur.fr/recherche/unites/pmtg/integ/fig1.html (accessed 6/19/2003).

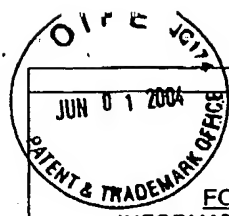
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FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.5340002/RWE/BJD/JKMAPPLICATION NO.
10/005,876FIRST NAMED INVENTOR
Chesnut *et al.*FILING DATE
December 7, 2001ART UNIT
1636




U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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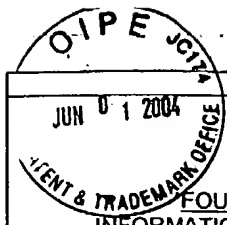
	AR	<u>112</u>	Institut Pasteur Website, Figure 2: http://www.pasteur.fr/recherche/unites/pmtg/integ/fig2.html (accessed 6/19/2003).
	AS	<u>112</u>	Institut Pasteur Website, Figure 3: http://www.pasteur.fr/recherche/unites/pmtg/integ/fig3.html (accessed 6/19/2003):
	AT	<u>112</u>	Institut Pasteur Website, Main page: http://www.pasteur.fr/recherche/unites/pmtg (accessed 6/19/2003).

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	AR	<u>113</u>	Co-Pending U.S. Patent Application No. 09/177,387, Hartley, J.L., <i>et al.</i> , filed October 23, 1998 (NOT PUBLISHED).
	AS	<u>113</u>	Co-Pending U.S. Patent Application No. 09/438,358, Gerard, G.F., <i>et al.</i> , filed November 12, 1999 (NOT PUBLISHED).
	AT	<u>113</u>	Co-Pending U.S. Patent Application No. 09/517,466, Hartley, J.L., <i>et al.</i> , filed March 2, 2000 (NOT PUBLISHED).

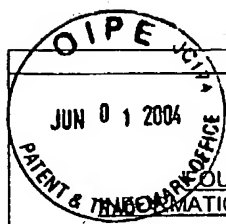
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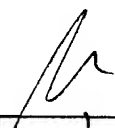


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	AP						Yes No

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	AR	<u>114</u>	Co-Pending U.S. Patent Application No. 09/648,790, Hartley, J.L., <i>et al.</i> , filed August 28, 2000 (NOT PUBLISHED).
	AS	<u>114</u>	Co-Pending U.S. Patent Application No. 09/695,065, Brash, M.A., <i>et al.</i> , filed October 25, 2000 (NOT PUBLISHED).
	AT	<u>114</u>	Co-Pending U.S. Patent Application No. 09/984,239, Brasch, M.A., <i>et al.</i> , filed October 29, 2001 (NOT PUBLISHED).

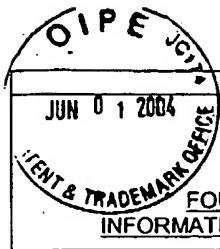
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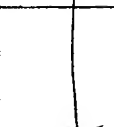
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>115</u>	Co-Pending U.S. Patent Application No. 10/058,292, Hartley, J.L., and Brasch, M.A., filed January 30, 2002 (NOT PUBLISHED).
	AS	<u>115</u>	Co-Pending U.S. Patent Application No. 10/640,422, Cheo, D., <i>et al.</i> , filed August 14, 2003 (NOT PUBLISHED).
	AT	<u>115</u>	Ball, C.A. and Johnson, R.C. "Efficient Excision of Phage λ from the <i>Escherichia coli</i> Chromosome Requires the Fis Protein," <i>J. Bacteriol.</i> 173:4027-4031, American Society for Microbiology (July 1991).

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